

22222222 22222222 22222222 22222222 2222	RRRRRRRR RR RR RR RR RR RR RR RR RRRRRRR	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	MM	AAAAAA AA AA AA AA	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
RRRRRRRR RRRRRRRR RR RR RR RR RR RR RR RR RRRRRR	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	QQQQQQQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ Q				

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Version 'V03-000'

MODULE: CRFMAC.REQ

FACILITY: CROSS REFERENCE UTILITY INTERFACE

ABSTRACT: REQUIRE FILE WHICH DEFINES THE CRF INTERFACING MACROS
I.E. THOSE WHICH INITIALIZE THE FORMAT DESCRIPTION TABLES

HISTORY:

VERSION: 'V04-000'

AUTHOR: T.J. PORTER 24-MAY-77

MODIFICATIONS:

NO.	DATE	PROGRAMMER	PURPOSE
001 002	24-JUN-77 11-JUL-77	T.J. PORTER T.J. PORTER	CROSS REFERENCE KEY TYPES IN MACROS. ADD ERROR AND OUTPUT ROUTINE ADDRESSES TO CONTROL TABLE.
003	29-001-79	B.L. SCHREIBER	INITIALIZE ENTRY AND NODE SIZES IN TABLE. KEY TYPES ARE NOW EXTERNAL. DEFINE ALL LITERALS SO IT CAN GO INTO SYSTEM LIBRARIES.

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! VALUE FIELD DESCRIPTION TABLE

```
CRFMAC.REQ:1
```

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1++
   FUNCTIONAL DESCRIPTION:
   THIS REQUIRE FILE DEFINES THE BLISS MACROS TO BE USED BY A UTILITY WHICH USES THE CROSS REFERENCE UTILITY. THESE KEYWORD MACROS ARE THOSE FOR INITIALIZING THE TABLES REQUIRED BY CROSS REFERENCE FOR DESCRIPTION OF THE OUTPUT LINE
   FORMATS.
 ! DECLARE TABLE AND ENTRY SIZES **NOTE** MUST CHANGE IF CRF CHANGES ***
LITERAL
              CRFSK_TBLSIZE = 96,
CRFSK_FIELDSIZE = 12,
                                                                                                     ! SIZE OF LINE TABLE (BYTES)
                                                                                                     ! FIELD TABLE ENTRY SIZE (BYTES)
              CRF$K_ASCIC = 0,
CRF$K_BIN_U32 = 1,
                                                                                                     ! ASCII COUNTED STRING KEYS
! 32 BIT UNSIGNED BINARY KEYS
              CRF$K_VALUES = 0,
CRF$K_VALS_REFS = 1,
CRF$K_DEFS_REFS = 2,
CRF$K_DELETE = 0,
CRF$K_SAVE = 1,
CRF$K_REF = 0.
                                                                                                      ! CROSS REFERENCE WITH VALUES
                                                                                                        JUST REFERENCES
                                                                                                     FULL CROSS REFERENCE
INDICATOR TO DELETE THE TABLES
INDICATOR TO SAVE THE TABLES
                                                                                                     ! REFERENCE TO A SYMBOL
               CRF$K_DEF = 1;
                                                                                                     ! DEFINITION OF SYMBOL
   GENERATE THE CROSS REFERENCE CONTROL TABLE
KEYWORDMACRO
              $CRFCTLTABLE(KEYTYPE=ASCIC,ERROR=0,OUTPUT=0,
                                           MEMEXP=50.
                            KEY1TABLE=0, KEY2TABLE=0,
VAL1TABLE=0, VAL2TABLE=0,
REF1TABLE=0, REF2TABLE=0)=
BLOCK[CRF$K_TBLSIZE,BYTE] ALIGN(0)
INITIAL(0,
                                                                                                        THE TREE LISTHEAD
                                                         BYTE (%NAME ('CRF$K_', KEYTYPE),! TYPE OF KEY

0,0,0), ! THREE BYTES RESERVED

LONG(0), ! NUMBER OF ENTRIES
                                                                                                         IS INITIALLY O
                                                                                                     NUMBER OF ENTRIES IN CROSS REFERENCE
LIST HEAD FOR VIRTUAL MEMORY ALLOCATED
SIZE IN BYTES OF VA TO ALLOCATE
SIZE IN PAGES OF VA TO ALLOCATE
                                                                  LONG (0.0)
                                                                 LONG (MEMEXP*512),
                                                                  LONG (MEMEXP),
                                                                  LONG(0,0,0,0,0,0,0), ! RESERVED FOR EXPANSION
                                                                                                         ERROR ROUTINE ADDRESS
OUTPUT ROUTINE ADDRESS
                                                                 ERROR,
OUTPUT
                                                                                                        POINTER TO PRIMARY KEY FIELD DESCRIPTION TABLE
POINTER TO SECOND KEY FIELD DESCRIPTION TABLE
POINTER TO TABLE DESCRIBING
THE KEY VALUE FIELD
POINTER TO SECONDARY
                                                                 KEYTABLE,
                                                                  VALITABLE,
                                                                 VALZTABLE.
```

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REFITABLE.

REF2TABLE)%,

! POINTER TO PRIMARY ! REFERENCE FIELD DESCRIPTION TABLE ! POINTER TO SECONDARY REFERENCE ! FIELD DESCRIPTION TABLE

GENERATE AN ENTRY IN A TABLE DESCRIBING FORMATS OF A PARTICULAR FIELD OF THE LINE

! BIT PATTERN FOR MATCH ! MATCH ON SET OR CLEAR ! WIDTH OF FIELD ! LENGTH OF FAO STRING ! ADDRESS OF TEXT STRING

GENERATE A FIELD TABLE END INDICATOR

\$CRFFIELDEND = WORD INITIAL(0)%;

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